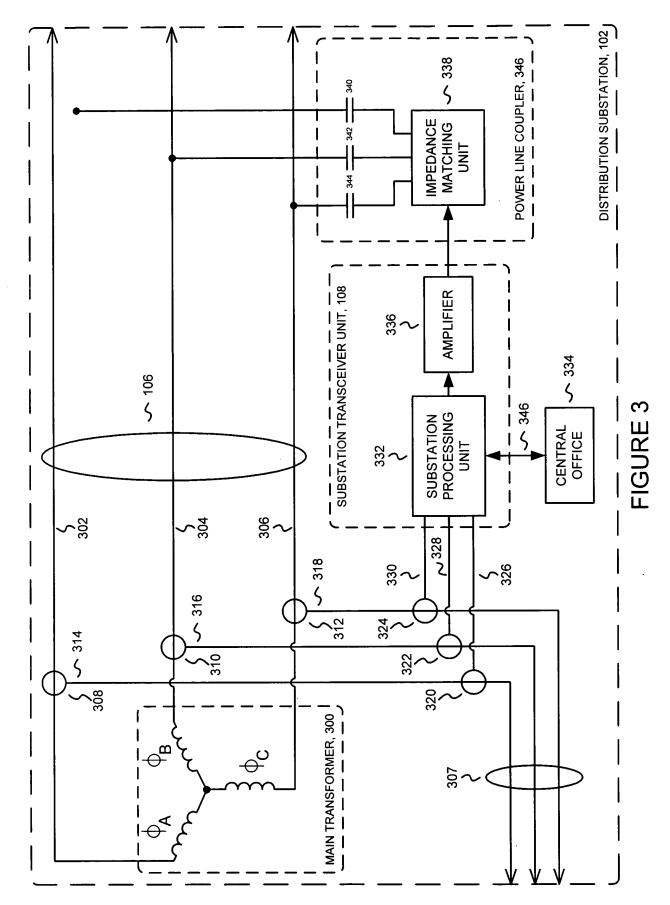


FIGURE 2



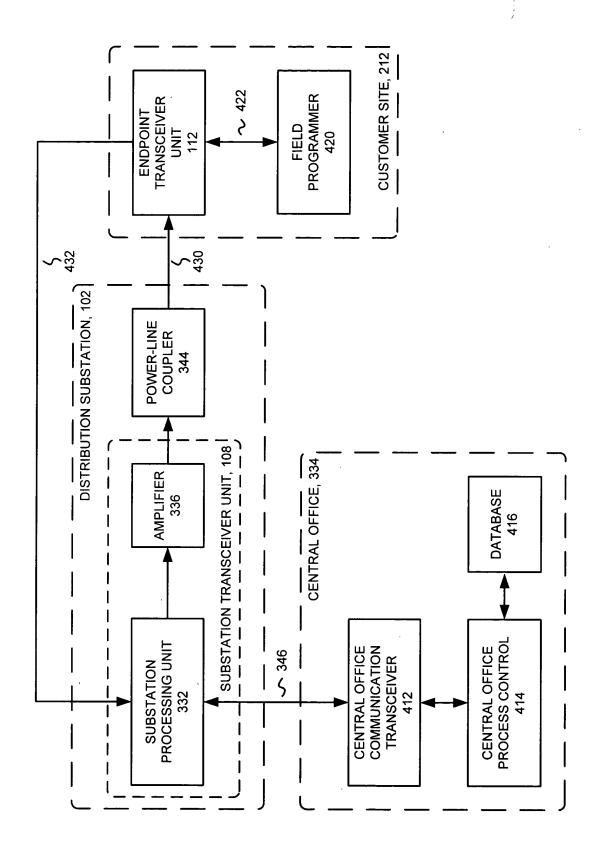


FIGURE 4

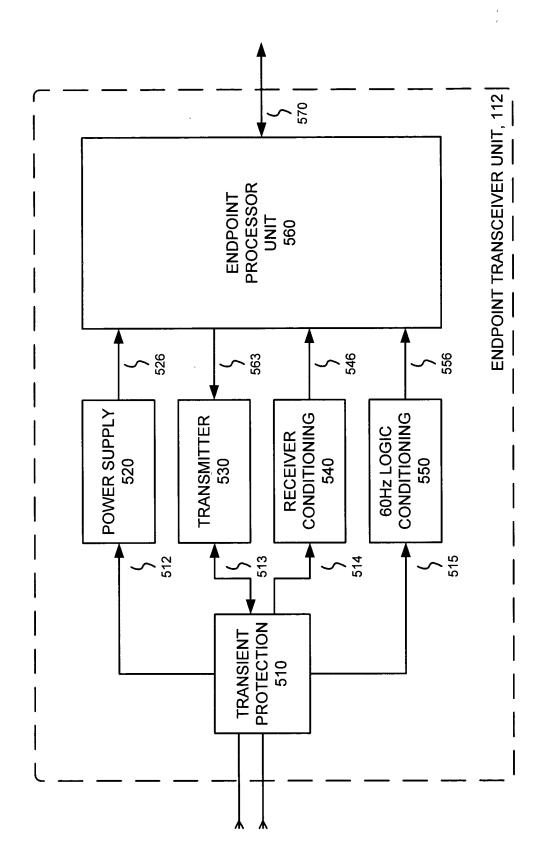


FIGURE 5

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Title: ENDPOINT RECEIVER SYSTEM

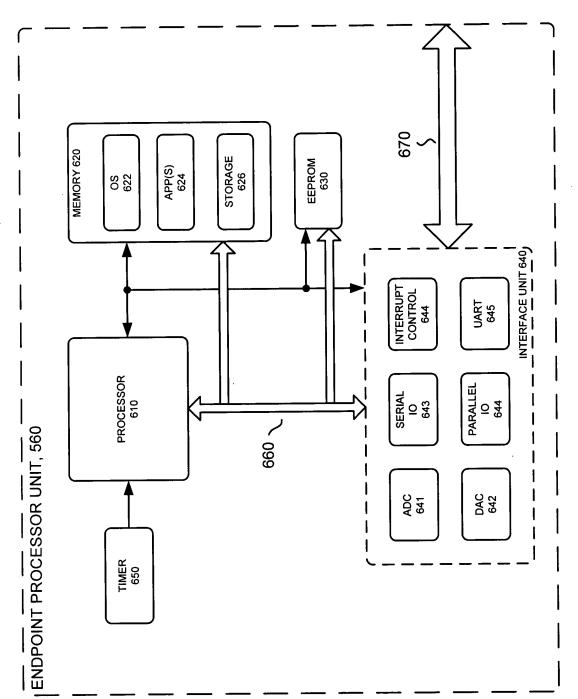
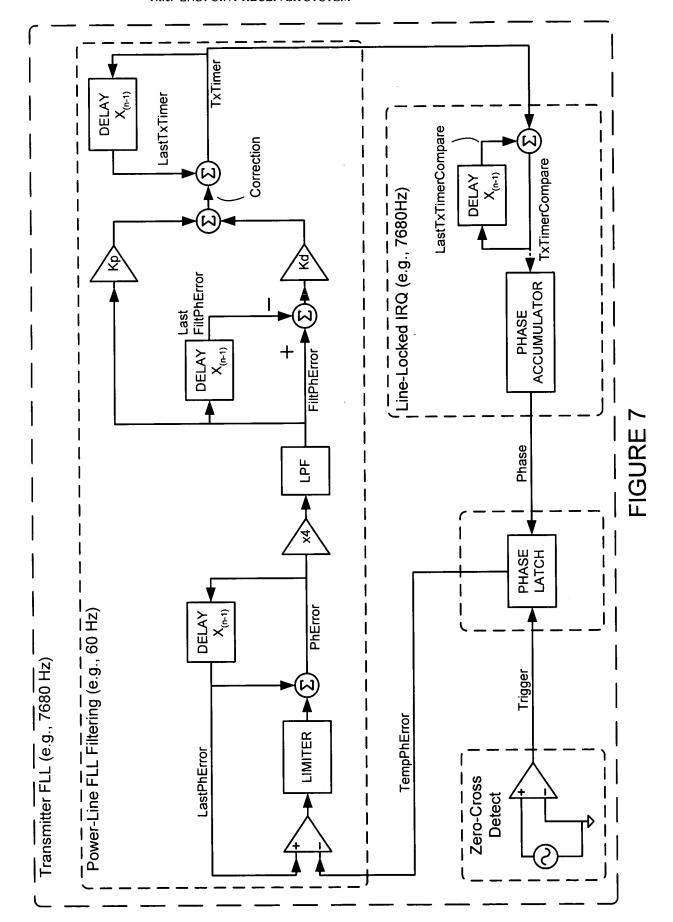


FIGURE 6



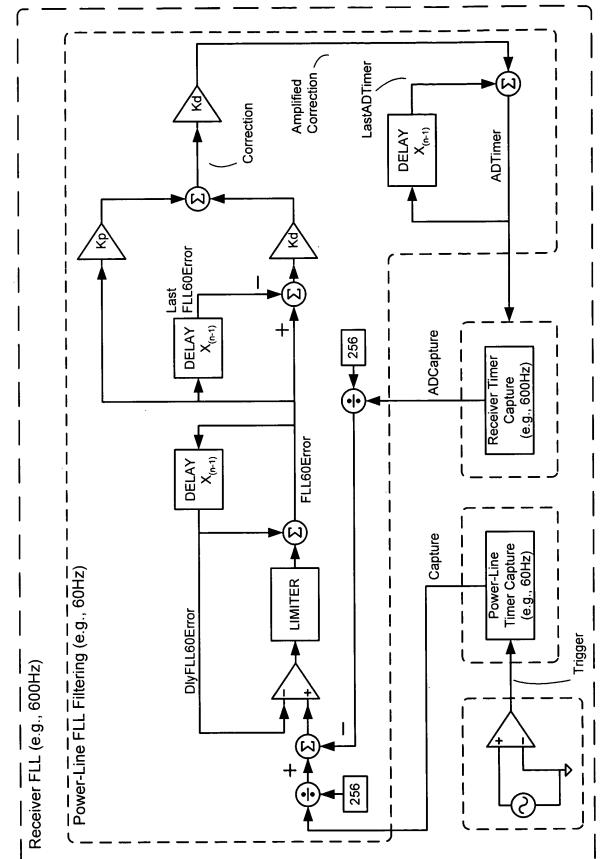


FIGURE 8

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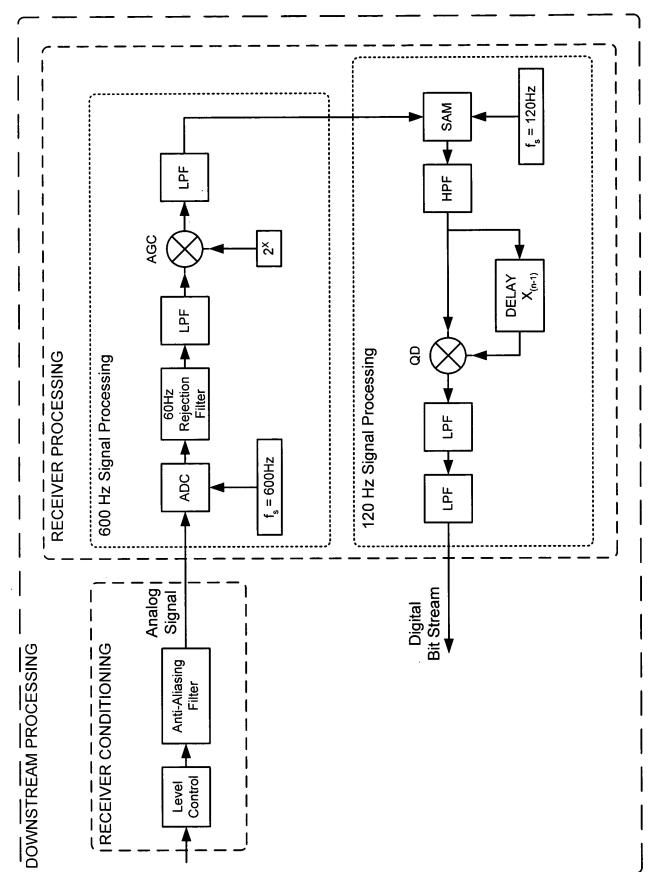
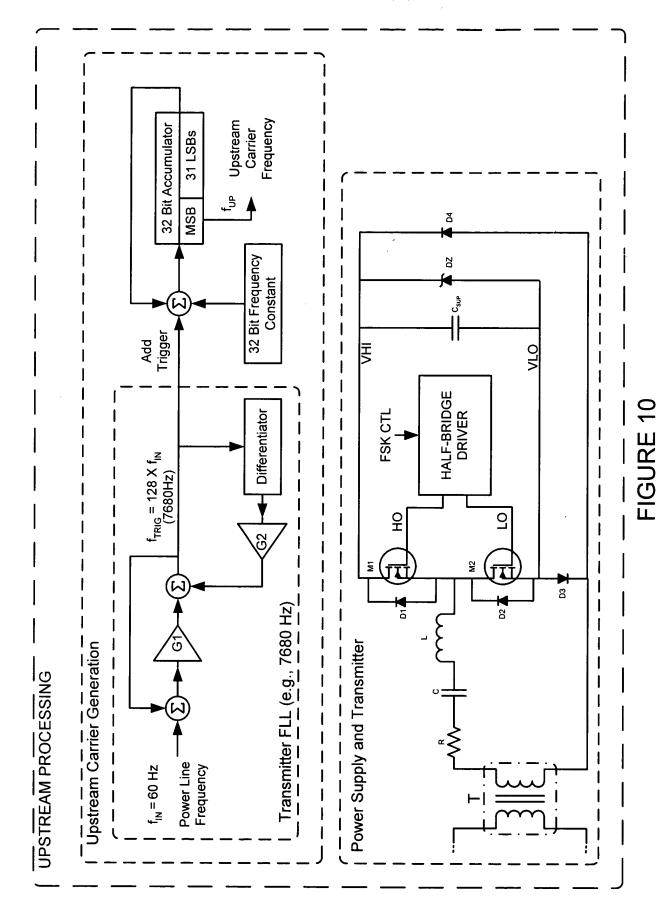


FIGURE 9



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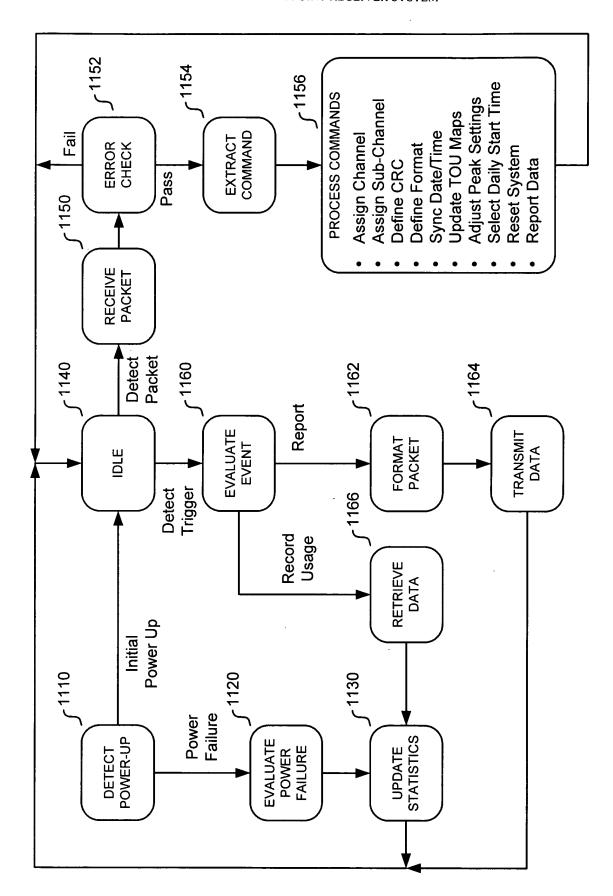


FIGURE 11

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Error Check (12)					
Data ID5					
Data Payload (up to 49 bits)	Data ID4 Data ID5				
	Data ID3				
	Data ID2				
	Data ID0 Data ID1				
	Data ID0				
Health Flag (1)					
Async Flag (1)					

DataID	Name	Description
0	Null	Empty Packet or ending packet
1	KWH1	Current power usage meter reading in units of kWH
2	TOU1	Null or the total number of kWH accumulated in the TOU1 bucket
3	TOU2	Null or the total number of kWH accumulated in the TOU2 bucket
4	TOU3	Null or the total number of kWH accumulated in the TOU3 bucket
5	TOU4	Null or the total number of kWH accumulated in the TOU4 bucket
9	Peak1	Total number of kWH used at the recorded peak time for TOU1 Map
7	Peak2	Total number of kWH used at the recorded peak time for TOU2 Map
8	Peak3	Total number of kWH used at the recorded peak time for TOU3 Map
6	Peak4	Total number of kWH used at the recorded peak time for TOU4 Map
10	Peak1Time	Time of peak demand for TOU1 Map
11	Peak2Time	Time of peak demand for TOU2 Map
12	Peak3Time	Time of peak demand for TOU3 Map
13	Peak4Time	Time of peak demand for TOU4 Map
14	Peak1Date	Date for Peak1 Demand
15	Peak2Date	Date for Peak2 Demand
16	Peak3Date	Date for Peak3 Demand
17	Peak4Date	Date for Peak4 Demand
18	LastPeak1	Last Peak1 Demand
19	LastPeak2	Last Peak2 Demand
20	LastPeak3	Last Peak3 Demand
21	LastPeak4	Last Peak4 Demand
22	LastPeak1Time	Time of Last Peak1 demand
23	LastPeak2Time	Time of Last Peak2 demand
24	LastPeak3Time	Time of Last Peak3 demand
25	LastPeak4Time	Time of Last Peak4 demand
26	LastPeak1Date	Date of Last Peak1 demand
27	LastPeak2Date	Date of Last Peak2 demand
28	LastPeak3Date	Date of Last Peak3 demand
29	LastPeak4Date	Date of Last Peak4 demand
30 - 41		Reserved

DataID	Name	Description
42	Momint	Total number of momentary interruptions
43	MomEvent	Total number of momentary event interruptions
44	SusInt	Total number of sustained interruptions
45	SusIntDur	Total accumulated time for sustained interruptions
46	ConfigStatusFlags	Configuration status flags
47	SerNum	An internal serial number for the endpoint
48	ModelID	Identifies the model type or model family for the endpoint
49	HWRev	Hardware revision ID for the endpoint
20	SWVersion	Software version info for the endpoint
51	FlashCRC	CRC of application code
52	ReqID	Request ID of last async-type request received by the endpoint
53	LastResetTime	Time of last demand reset in minutes
54	LastResetDay	Day of the last demand reset in day-of-year format
25	Group 0	Group Address that the endpoint subscribes to for downstream reception
99	Group 1	Group Address that the endpoint subscribes to for downstream reception
25	Group 2	Group Address that the endpoint subscribes to for downstream reception
58	Group 3	Group Address that the endpoint subscribes to for downstream reception
59	Group 4	Group Address that the endpoint subscribes to for downstream reception
09	Group 5	Group Address that the endpoint subscribes to for downstream reception
61	Group 6	Group Address that the endpoint subscribes to for downstream reception
62	Group 7	Group Address that the endpoint subscribes to for downstream reception
63	PacketStartTime	Time of the day that the first bit of the upstream transmission starts
64	ElectricMetTime	The time at which electric metrology readings are captured - time in minutes
65	MomLogPtr	Memory address pointer for storing the next detected momentary interrupt
99	TxConst0	Transmitter upstream frequency constant for logic 0 modulation
29	TxConst1	Transmitter upstream frequency constant for logic 1 modulation
89	TxSubID	Sub-channel ID assigned for upstream communications
69 - 129		Reserved
130	InternalBIT	Built in test flag for internal faults
131	InterfaceBIT	Built in test flag for interface faults
132	SystemStatus	Built in status flags

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SublD Demand WhiteFilter BlackFilter WhiteThreshold OptoMin OpticMax FilteredOpto KhConst AGCLevel MeterGroupCRC BlackMin WhiteMax OptoSample KWHAccumulator Kp7680 Kd60 Kd60
FLL7680UnLckCt
FI 1 76801 In ckMax

TABLE

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Description	Unlocked counter for 60 Hz FLL	Max since power-up of Unlocked counter for 7680 Hz FLL	Reserved	56-bit constant of all 1's for filling upstream packets when necessary	
Name	FLL60UnLckCt	FLL60UnLckMax		OnesFill	
		ckCt Unlocked counter for 60 Hz FLL	unoo p	Name FLL60UnLckCt Unlocked counter for 60 Hz FLL FLL60UnLckMax Max since power-up of Unlocked counter for 7680 Hz FLL	Name FLL60UnLckCt Unlocked counter for 60 Hz FLL FLL60UnLckMax Max since power-up of Unlocked counter for 7680 Hz FLL

DataID 163 164 165 - 254 255